Code: 006-21-000016 | Original/Duplicate/Triplicate | Est Cost 450.00Lakhs

CONTRACT CERTIFICATE

(FOR OTHER WORKS)

TS. No:

No: 2nd & part Bill | Date:

Division : **Project Division, Yelahanka**

Bill Received No. Date | Cash Book vr.No. Date:

Scheduled Docket No | Head of Account

Name of work :- Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06

Name of Contractor and full address: M/s Nagasandra Ramarao Satish (Sathya Borewell Cleaning), Vidya nagar, T dasarahalli, Bangalore 560057

Reference to agreement No :- BBMP/YNK/EE(P)/KPD/TEND/04/201920 dated:-09/05/2019

Certified that the measurement were taken by me on dated:- 15.06.2022 and recorded as Page to 58 35 37-45 of measurement Book No: 01/20-21 and that the work is satisfactorily executed.

Contractor | Officer-in-charge of work

Certified that the measurement were checked by me on 15/6/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account if have been actually brought to the of the work and the contractor has not previously received any advance on this security. These Materials are of an Imperishable nature and are all required by the contractor for immediate use on the work in connection with items for which rates for finished work have been agreed upon. A formal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Office

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

II Memorandum of Payment

1	Total value of work done or supplies made as per Account with in	Ground	2722589
2	Deduct amount to be held in reserve being.....percent Rs....	Ground	
3	Balance	1st Eqpmt	2722589
4	Deduct Payments		
	a) Amount of previous payment as in the Office Cash Book vr. No.....Dated.....S.D.No.....	2nd Eqpmt	18157000
	Amount adjusted towards cash advance recovery of	IT	363140
	b) Payments cost of store or other materials supplied	Cess	181570
	Now made Recovery of amount Creditable to his/other work	CBF	18160
	Amount paid on this bill be cheque/cash	Cess	165860
5	Balance being unpaid value of work done held in reverse TOTAL	SGST	165860
6	Deduct cash advance made on the Office Cash Book Vr.No..... Dated.....less adjustment	Penalty	25000
7	No amount due to or from contractor	Total deduct	919590
	Unadjustment items	Net payable	17237410
8	Advance to contractor for materials brought site (as detailed) with in Value of Government materials supplied		
	Total Amount adjusted		

Contractor's Signature

Received Rs.....in words.....

.....

.....by cash and by adjustment

(for use in the office)

Payment as per memorandum.

(in final settlement of all demands)

Audited & Admitted for Rs... Rs 18157000/-

Witness:

1

2

Receipt Stamp

Date Signature of Contractor

Rs 17237410/- by Cheque and Rs. 919590/- by Adjustment

Paid by me by Cheque No.....Date.....

Cash Rs.....

Date.....Initial of officer making payment

Accts. Supdt. Project Division B.B.M.P.

Exe. Engineer Project Division B.B.M.P.

Dated..... Executive Engineer

Project Division Yelahanka Zone

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Name of work : Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06

SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc **Qty Upto 125%**	Each BW	47.00	4228.00	198716.00	35.00	4228.00	147980.00	12.00	4228.00	50736.00	47.00	198716.00
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 0 to 50 m **Qty Upto 125%**	Rmtr	2350.00	389.00	914150.00	1750.00	389.00	680750.00	600.00	389.00	233400.00	2350.00	914150.00

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total Up	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
3	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 50 to 100 m **Qty Upto 125%**	**Rmtr**	2350.00	496.00	1165600.00	1750.00	496.00	868000.00	600.00	496.00	297600.00	2350.00	**1165600.00**
4	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 100 to 150 m **Qty Upto 125%**	**Rmtr**	2350.00	511.00	1200850.00	1750.00	511.00	894250.00	600.00	511.00	306600.00	2350.00	**1200850.00**
5	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 150 to 200 m **Qty Upto 125%**	**Rmtr**	2350.00	601.00	1412350.00	1750.00	601.00	1051750.00	600.00	601.00	360600.00	2350.00	**1412350.00**

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Sl. No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
6	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 200 to 250 m **Qty Upto 125%**	**Rmtr**	2350.00	711.00	1670850.00	1750.00	711.00	1244250.00	600.00	711.00	426600.00	2350.00	**1670850.00**
7	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 250 to 300 m **Qty Upto 125%**	**Rmtr**	2350.00	785.00	1844750.00	1750.00	785.00	1373750.00	600.00	785.00	471000.00	2350.00	**1844750.00**
8	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 300 to 350 m **Qty Upto 125%**	**Rmtr**	2300.00	250.00	575000.00	1750.00	250.00	437500.00	550.00	250.00	137500.00	2300.00	**575000.00**

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SL No	Items grouped under sub-heads and sub-works of the estimate		As per Modified Sch.B			Previous Measurement			Present Measurement			Total up	
		Unit	Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
9	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 350 to above	Rmtr	1364.00	1000.00	1364000.00	1186.00	1000.00	1186000.00	178.00	1000.00	178000.00	1364.00	1364000.00
10	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes)	Rmtr	2083.50	1480.00	3083580.00	1575.00	1480.00	2331000.00	508.50	1480.00	752580.00	2083.50	3083580.00
11	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	Rmtr	658.00	1250.00	822500.00	350.00	1250.00	437500.00	162.50	1250.00	203125.00	512.50	640625.00
	Qty Upto 125%								146.50	1250.00	183125.00	146.50	183125.00
	Qty Above 125%												
12	175 mm dia M.S. Casing cap **Qty Upto 125%**	Each	47.00	103.00	4841.00	35.00	103.00	3605.00	12.00	103.00	1236.00	47.00	4841.00
13	M.S. Casing pipe collars 'C' Class	Each	362.00	154.00	55748.00	277.00	154.00	42658.00	85.00	154.00	13090.00	362.00	55748.00
14	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm **Qty Upto 125%**	Sqm	1034000.00	0.33	341220.00	770000.00	0.33	254100.00	264000.00	0.33	87120.00	1034000.00	341220.00

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
15	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) **Qty Upto 125%**	Each	2228.00	92.00	204976.00	1598.00	92.00	147016.00	630.00	92.00	57960.00	2228.00	**204976.00**
16	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete....	No	123.00	234.00	28782.00	87.00	234.00	20358.00	36.00	234.00	8424.00	123.00	**28782.00**
17	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554)	Mtr	991.00	140.00	138740.00	766.00	140.00	107240.00	225.00	140.00	31500.00	991.00	**138740.00**
18	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces	Mtr	933.00	117.00	109161.00	708.00	117.00	82836.00	225.00	117.00	26325.00	933.00	**109161.00**
19	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm	Mtr	80.00	294.00	23520.00	56.00	294.00	16464.00	24.00	294.00	7056.00	80.00	**23520.00**
20	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia	No	41.00	4317.00	176997.00	29.00	4317.00	125193.00	12.00	4317.00	51804.00	41.00	**176997.00**
21	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,	No	41.00	280.00	11480.00	29.00	280.00	8120.00	12.00	280.00	3360.00	41.00	**11480.00**

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
22	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches	No	41.00	302.00	12382.00	29.00	302.00	8758.00	12.00	302.00	3624.00	41.00	12382.00
23	Cleaning of bore well inciuding yield tetsting of borewell either using slow or fast rig for not more than 2 hours at the final depth with air compressor or suitable pump as per specification (PRED 12-13 SL NO.9.5 PAGE NO.49)	Each	0.00	10128.00	0.00	0.00	10128.00	0.00	0.00	10128.00	0.00	0.00	0.00
24	Borewell Clamp Set	Set	41.00	1800.00	73800.00	29.00	1800.00	52200.00	12.00	1800.00	21600.00	41.00	73800.00
25	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.5HP 30 Stage **Qty Upto 125%**	No	41.00	72500.00	2972500.00	29.00	72500.00	2102500.00	8.00	72500.00	580000.00	37.00	2682500.00
	Qty Above 125%								4.00	72500.00	290000.00	4.00	290000.00

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			To	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
26	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 20 HP 40 Stage	No	0.00	91800.00	0.00	0.00	91800.00	0.00	0.00	91800.00	0.00	0.00	0.00
27	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class	Rmtr	14284.00	435.00	6213540.00	9622.00	435.00	4185570.00	4662.00	435.00	2027970.00	14284.00	6213540.00
28	Supply and fixing Heavy Collar for GI Pipes 50MM **Qty Upto 125%**	Mtr	2454.00	0.88	2159.52	1656.00	0.88	1457.28	798.00	0.88	702.24	2454.00	2159.52
29	Supplying of submersible pump cable 1X3X6..0 Sq.mm	No	30664.00	145.00	4446280.00	19898.00	145.00	2885210.00	10766.00	145.00	1561070.00	30664.00	4446280.00

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement				
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	
30	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR)	No	41.00	21000.00	861000.00	29.00	21000.00	609000.00	12.00	21000.00	252000.00	41.00	861000.00
31	Supplying & delivery of brand 50mm Gate Valve.	No	41.00	1800.00	73800.00	29.00	1800.00	52200.00	12.00	1800.00	21600.00	41.00	73800.00
32	Supplying & delivery of brand 50mm Non Return Valve.	No	41.00	1800.00	73800.00	29.00	1800.00	52200.00	12.00	1800.00	21600.00	41.00	73800.00
33	Supplying and fixing MCB	No	41.00	900.00	36900.00	29.00	900.00	26100.00	12.00	900.00	10800.00	41.00	36900.00
34	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications **Qty Upto 125%**	Cum	8640.00	318.00	2747520.00	2655.00	318.00	844290.00	5983.20	318.00	1902657.60	8638.20	2746947.60

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	As per Modified Sch.B			Previous Measurement			Present Measurement			Total	
			Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
35	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete	Mtr	19200.00	395.00	7584000.00	5900.00	395.00	2330500.00	13296.00	395.00	5251920.00	19196.00	7582420.00
36	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications **Qty Upto 125%**	Cum	8640.00	129.16	1115942.40	2655.00	129.16	342919.80	5983.20	129.16	772790.11	8638.20	1115709.91
	TOTAL				**41561435**			**24953225**			**16607074.95**		**41560300.03**
	GST 12% for AMOUNT							**1715627**			**1572115.19**		**3287742.19**
	bescom chargess					30	18568	**557040**			**0.00**		**557040.00**
	NET TOTAL							27225892			18179190.15		45405082.23

Certificate

1 The contractor work done and Satisfactorly
2 Departmental Issues Nill
3 The Amount chargeble to P3639 Under mukhyamanthrigala Nava Bengaluru yojane

Asst. Engineer

Executive Engineer
Project Division, Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division, Yelahanka Zone
BBMP, Bangalore - 92

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